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PTO/SB/05 (11-00)
Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.	55.US4.DIV
First Inventor	Schork, et al.
Title	Methods, Software and Apparatus for Identifying Genomic Regions Harboring a Gene Associated with a Detectable Trait
Express Mail Label No.	EL821903728US

jc668 U.S.P.T.O. 09/858289
05/15/01**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents.

1. Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. Applicant claims small entity status.
See 37 CFR 1.27.
3. Specification [Total Pages]
(preferred arrangement set forth below)
 - Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. Drawing(s) (35 U.S.C. 113) [Total Sheets]
5. Oath or Declaration [Total Pages]
 - a. Newly executed (original or copy)
 - b. Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 18 completed)
 - i. **DELETION OF INVENTOR(S)**
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. Application Data Sheet. See 37 CFR 1.76

ADDRESS TO: Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

7. CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
 - a. Computer Readable Form (CRF)
 - b. Specification Sequence Listing on:
 - i. CD-ROM or CD-R (2 copies); or
 - ii. paper
 - c. Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. Assignment Papers (cover sheet & document(s))
10. 37 CFR 3.73(b) Statement Power of Attorney (when there is an assignee)
11. English Translation Document (if applicable)
12. Information Disclosure Statement (IDS)/PTO-1449 Copies of IDS Citations
13. Preliminary Amendment
14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
15. Certified Copy of Priority Document(s) (if foreign priority is claimed)
16. Request and Certification under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.
17. Other:

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

 Continuation Divisional Continuation-in-part (CIP)

of prior application No. 09 438,016

Prior application information Examiner Young J. Kim

Group Art Unit: 1631

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS

<input checked="" type="checkbox"/> Customer Number or Bar Code Label	000027206 (Insert Customer No. or Attach bar code label here)	or <input checked="" type="checkbox"/> Correspondence address below	
Name	John Lucas, Ph.D., J.D.		
Address	Genset Corporation		
	10665 Sorrento Valley Road		
City	San Diego	State	CA
Country		Telephone	(858) 597-2600
Name (Print/Type)	John Lucas	Registration No. (Attorney/Agent)	43,373
Signature			Date 14 May 01

Burden Hour Statement This form is estimated to take 0 2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231

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FEE TRANSMITTAL for FY 2001

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT (\$ 710.00)

Complete if Known

Application Number	
Filing Date	May 14, 2001
First Named Inventor	Nicholas Schork, et al.
Examiner Name	Y. Kim
Group Art Unit	1631
Attorney Docket No.	55.US4.DIV

METHOD OF PAYMENT

1. The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit Account Number 50-1181

Deposit Account Name GENSET CORPORATION

 Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17 Applicant claims small entity status. See 37 CFR 1.27

2. Payment Enclosed:

Check Credit card Money Order Other

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
101 710	201 355	Utility filing fee	710
106 320	206 160	Design filing fee	
107 490	207 245	Plant filing fee	
108 710	208 355	Reissue filing fee	
114 150	214 75	Provisional filing fee	

SUBTOTAL (1) (\$ 710.00)

2. EXTRA CLAIM FEES

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
1			-20** =	0	
	1		- 3** =	0	

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
103 18	203 9	Claims in excess of 20
102 80	202 40	Independent claims in excess of 3
104 270	204 135	Multiple dependent claim, if not paid
109 80	209 40	** Reissue independent claims over original patent
110 18	210 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 0.00)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

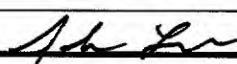
3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
105 130	205 65	Surcharge - late filing fee or oath	
127 50	227 25	Surcharge - late provisional filing fee or cover sheet	
139 130	139 130	Non-English specification	
147 2,520	147 2,520	For filing a request for ex parte reexamination	
112 920*	112 920*	Requesting publication of SIR prior to Examiner action	
113 1,840*	113 1,840*	Requesting publication of SIR after Examiner action	
115 110	215 55	Extension for reply within first month	
116 390	216 195	Extension for reply within second month	
117 890	217 445	Extension for reply within third month	
118 1,390	218 695	Extension for reply within fourth month	
128 1,890	228 945	Extension for reply within fifth month	
119 310	219 155	Notice of Appeal	
120 310	220 155	Filing a brief in support of an appeal	
121 270	221 135	Request for oral hearing	
138 1,510	138 1,510	Petition to institute a public use proceeding	
140 110	240 55	Petition to revive - unavoidable	
141 1,240	241 620	Petition to revive - unintentional	
142 1,240	242 620	Utility issue fee (or reissue)	
143 440	243 220	Design issue fee	
144 600	244 300	Plant issue fee	
122 130	122 130	Petitions to the Commissioner	
123 50	123 50	Processing fee under 37 CFR 1.17(q)	
126 180	126 180	Submission of Information Disclosure Stmt	
581 40	581 40	Recording each patent assignment per property (times number of properties)	
146 710	246 355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149 710	249 355	For each additional invention to be examined (37 CFR § 1.129(b))	
179 710	279 355	Request for Continued Examination (RCE)	
169 900	169 900	Request for expedited examination of a design application	
Other fee (specify) _____			

*Reduced by Basic Filing Fee Paid SUBTOTAL (3) (\$ 0.00)

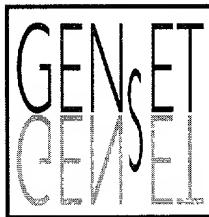
SUBMITTED BY Express Mail Label No EL821903728US

Complete (if applicable)

Name (Print/Type)	John Lucas	Registration No. (Attorney/Agent)	43,373	Telephone	858/597-2600
Signature				Date	14 May 01

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



G E N S E T T

Direct Dial: (858) 597-2610
E-Mail: john.lucas@genxy.com

May 14, 2001

Express Mail Label No. EL821903728US

Assistant Commissioner for Patents
Box: Patent Application
Washington, D.C. 20231

RE: U.S. Divisional Patent Application
For: **METHODS, SOFTWARE AND APPARATI FOR IDENTIFYING GENOMIC REGIONS
HARBORING A GENE ASSOCIATED WITH A DETECTABLE TRAIT**
Inventors: **Nicholas Schork, Laurent Essioux, Annick Cohen-Akenine, Marta
Blumenfeld**
Our Ref.: 55.US4.DIV

Dear Sir:

Enclosed please find the above-identified divisional application for filing with the United States Patent and Trademark Office. The following documents are transmitted herewith:

	<u>Quantity</u>
1) Specification, Claims and Abstract	97 pages
2) Application Data Sheet	2 pages
3) Utility Patent Application Transmittal, Fee Transmittal for FY 2001	2 sheets
4) Drawings (Figures 1-25)	31 sheets
5) Preliminary Amendment	5 pages
6) Check in the amount of \$710.00 for the filing fee	
7) Two Copies of the Sequence Listing on CD-ROM	2 CD-ROMs
8) Sequence Submission Statement (and duplicate)	2 sheets
8) Return Receipt Postcard	

The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment in the processing of these documents to our Deposit Account No. 50-1181.

Very truly yours,

GENSET CORPORATION

John Lucas, Ph.D., J.D.
Reg. No. 43,373

Certificate of Mailing under 37 CFR 1.10

Express Mail Label No.: EL821903728US Date of Deposit: May 14, 2001
I hereby certify that this correspondence is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10, on the Date of Deposit shown above, postage prepaid and is addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.

Signature

Typed or Printed Name of Person Signing Certificate



PATENT / 55.US4.DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Divisional Patent Application of:)
Inventor(s) : **Nicholas Schork, Laurent Essioux, Annick**)
 Cohen-Akenine, Marta Blumenfeld)
) Art Unit : 1631
Serial No. :)
) Examiner : Y. Kim
Filed : **May 14, 2001**)
Parent Application:)
Serial No. : **09/438,016**)
Filing Date : **November 10, 1999**)
Title : **METHODS, SOFTWARE AND APPARATI FOR**)
 IDENTIFYING GENOMIC REGIONS HARBORING)
 A GENE ASSOCIATED WITH A DETECTABLE)
 TRAIT)

SEQUENCE SUBMISSION STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

A copy of the Sequence Listing in computer readable form as required by 37 C.F.R. § 1.821(e) is submitted herewith.

As required by 37 C.F.R. § 1.821(f), the data on the enclosed disk is identical to the Sequence Listing in the application filed herewith.

Respectfully submitted,

Dated: 14 May 2001

By: Aaron Scalia
Aaron Scalia
Genset Corporation
10665 Sorrento Valley Road
San Diego, CA 92121
(858) 597-2600

PATENT
GENSET.048AUS

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JC668 U.S. PTO
09/858289
05/15/01

Applicant : Schork et al
Appl. No. : To be assigned
Filed : Herewith
For : Methods, software and apparatus for identifying genomic...

SEQUENCE SUBMISSION STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

A copy of the Sequence Listing in computer readable form as required by 37 C.F.R. § 1.821(e) is submitted herewith.

As required by 37 C.F.R. § 1.821(f), the data on the enclosed disk is identical to the Sequence Listing in the application filed herewith.

Respectfully submitted,

Dated: 11/9/99

By: Aaron Scalia

Aaron Scalia
Patent Engineer
Genset Corporation
875 Prospect Street
Suite #206
La Jolla, CA 92037
(858) 551-3013